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Delivered Date: 03/06/2009 10:39 PM EDT

Subject: Re: New Reactive Cap for Remediating PCBs

Hi Dave,

Chemically, I wonder what the interaction is between the palladium and iron in this equation. The activated carbon is a good thing as well. If the CAD cells were used with this mixture resting on top, I don't think that by the time the PCBs broke down that they would mobilize in the CAD cell is they are "buried" under this mixture.

There needs to be more info on this but I found it quite interesting. By moving around the PCBs in their current state, i.e. 1254's and 1260's at its current location then being dredged and allowing the contamination to spread via the harbor and of course volatilizing and producing contaminated air to put everyone at risk, which is worse? We all want the PCBs to go away but the long dredging activity over 38 years is not only too long but also too many years of spreading contamination at the current level of funding.

I wonder if the EPA will contact these scientists who have come up with this idea of the palladium, iron and activated carbon mix. It may help many sites throughout the US!

Be well,
Karen Vilandry

--- On Fri, 3/6/09, dickerson.dave@epamail.epa.gov <dickerson.dave@epamail.epa.gov> wrote:
From: dickerson.dave@epamail.epa.gov <dickerson.dave@epamail.epa.gov>
Subject: Re: New Reactive Cap for Remediating PCBs
To: kav704@yahoo.com
Cc: Catri.Cynthia@epamail.epa.gov, Peterson.David@epamail.epa.gov, Ng.ManChak@epamail.epa.gov, Gutro.Doug@epamail.epa.gov,

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Date: Friday, March 6, 2009, 9:19 AM

Hi Karen - thanks for checking in. This is an interesting concept that we'll have to monitor as it proceeds through peer review and moves beyond the laboratory/research stage. One thing I'd be concerned about is whether the PCB molecules ever get fully dechlorinated. If it doesn't, what could happen is you'd just end up with the lighter molecular wieght PCB congeners - which would have the risk of being more highly mobil in the environment (e.g., in groundwater and air) than the heavier PCBs. But its an interesting development to be sure!

Dave D.
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03/05/2009 09:56 PM	Scott Alfonse <Scott.Alfonse@ci.new-bedford.ma.us>, Deb Coelho <DCNB2005@aol.com>, Jess Cruz <Jeslynn23@yahoo.com>, Tom Derosier <cputommy@yahoo.com>, LisaP Jackson/DC/USEPA/US@EPA, Eddie Johnson <jheljhnsn6@aol.com>, Scott Lang <scott.lang@ci.new-bedford.ma.us>, John Lucas <jlnewbdford@aol.com>, Steve Martins <smartins2@verizon.net>, ElaineT Stanley/R1/USEPA/US@EPA, Robert Varney/R1/USEPA/US@EPA, Dave Dickerson/R1/USEPA/US@EPA
Please respond to kav704@yahoo.com	cc Inge Perreault <ladyauthor@sapo.pt>
	Subject New Reactive Cap for Remediating PCBs

To:
Dave Dickerson
Elaine Stanley

Is this new method of remediation something that you can consider for New Bedford Harbor? I understand that by using palladium, iron and activated carbon can break down the PCB molecule to a less chlorinated form, hence, less toxic!

With the very high levels of PCBs at this Superfund Site, as you know, it will take 38 years or so with the small level of funding at 15 million a year! If this new method is used, it would contain the PCBs in the CAD cells and also degrade the PCBs over time which of course we would like to see "go away".

http://pubs.acs.org/doi/full/10.1021/es900340n

Tell me what you think of this for New Bedford!

Thank you!
Karen Vilandry